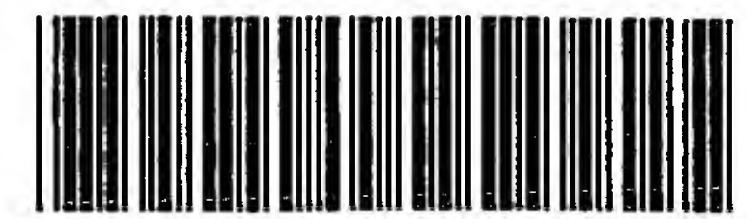


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/594, 014  
Source: TPWJP  
Date Processed by STIC: 10/3/06

***ENTERED***



IFWP

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/594,014**

**DATE: 10/03/2006**  
**TIME: 09:09:35**

**Input Set : A:\PTO.RJ.txt**  
**Output Set: N:\CRF4\10032006\J594014.raw**

3 <110> APPLICANT: DSM IP Assets B.V.  
 4 Petrus J.T. Dekker  
 5 Marco A. van den Berg  
 7 <120> TITLE OF INVENTION: FILAMENTOUS FUNGAL MUTANTS WITH IMPROVED HOMOLOGOUS RECOMBINATION  
 8 EFFICIENCY  
 10 <130> FILE REFERENCE: 3663-335 / 24181USWO  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/594,014  
 13 <141> CURRENT FILING DATE: 2006-09-25  
 15 <150> PRIOR APPLICATION NUMBER: PCT/EP2005/051464  
 16 <151> PRIOR FILING DATE: 2005-03-31  
 18 <150> PRIOR APPLICATION NUMBER: EP 04076057.1  
 19 <151> PRIOR FILING DATE: 2004-04-02  
 21 <160> NUMBER OF SEQ ID NOS: 23  
 23 <170> SOFTWARE: MS Word  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 2284  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Aspergillus niger  
 30 <400> SEQUENCE: 1

|  |      |
|--|------|
| 31 atggcggacg gcaaccaca tcgggaagat gaggcggccg aggaagaaga ggagattgat    | 60   |
| 32 gagactgtac gcaaatttac ccatgaactt ggactggaac tctggaactg acaataagat   | 120  |
| 33 cagagctaca aaccagtcaa agatgcggtc ctcttcgcaa tcgatgtcag cgattccatg   | 180  |
| 34 ttgacgcctc gcccttcagc agatcctaag aaacacaccc aagaatcacc caccacggca   | 240  |
| 35 gcgctcaa at ggccttatca cttcatgcaa caacgaatca tatcaa atcc acaagacatg | 300  |
| 36 atgggttgg tgctgttcgg gaccaggcg tccaa gtttct ttgaagaaga tgaagacagt   | 360  |
| 37 cggggagacc tgtcttaccc caactgctac ctcttcactg atctggatgt tccttcggct   | 420  |
| 38 catgaggtca aaggacttcg agcactggta gatgatgaag gagactcaag ggaggttcta   | 480  |
| 39 tctccagcga aagagcaggt ctctatggca aacgtcctat tttgcgccaa ccagatattc   | 540  |
| 40 acatccagag cgccaaattt cctctcccg cgtttgcata tcataaccga caatgacaac    | 600  |
| 41 ccccatggtg atgataaaac cctgcggta gcccggactg tacgtgctaa ggatcttac     | 660  |
| 42 gatcttggtg tcacaattga gctgtttccg atctcacgcc ctgagcatga gttcaagaac   | 720  |
| 43 agcaagttct atgacgtaag ctatcatact ctatagcaa gtggcagggg tcgataactca   | 780  |
| 44 ctacagatac aaaggatatt atctacaatg cattgcccag cgatccagag ggcctgcata   | 840  |
| 45 atctacaatc tgattcaaaa gcggcgactg cgaccgggca cgggatttca ctccctcaaca  | 900  |
| 46 cgcttctgtc cagtattat tcgagaacgg ttccgcgtcg cactcattt tcgaacatgc     | 960  |
| 47 ctttagaact tggcccagac ttcaattt cggatcgcc ctatataactc ttacgaaggc     | 1020 |
| 48 aagcgccccgc tagaaactcc ttcatctggc tgaacggcgaa gaagcctgtg gtcgcgaaag | 1080 |
| 49 gagtgacttc ccactccgca gatgatactg gccggactgt cgagaaatgg gagatcagaa   | 1140 |
| 50 aggcatataa gttcggtggc gaccaagtaa cctttcgcc tggatcgcc aaggcgctta     | 1200 |
| 51 gggatttcgg tgagccagta atccgggttca ttgggttcaa gcctatcact ggccttcata  | 1260 |
| 52 tctggcaaa cgtcaagcac ccataattta tctatccatc cgaggaagac tatgttagct    | 1320 |
| 53 cctcgccagtttcccgca ttgcatacaga ctctttcggttca ttccaagaag atggcactcg  | 1380 |
| 54 tctggttcat tgcacgcaag ggtgctggcc ccgttctcgcc cgctatgatc gcaggcgaa   | 1440 |

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/594,014**

**DATE: 10/03/2006**  
**TIME: 09:09:35**

**Input Set : A:\PTO.RJ.txt**  
**Output Set: N:\CRF4\10032006\J594014.raw**

|     |  |      |
|-----|--|------|
| 55  | aaaagcttga tgagaatggc gtacaaaaat accctcctgg catgtggatt cttcccctcc    | 1500 |
| 56  | ccttcgcaga cgatatccgg cagaaccccg aaacaacgtt gaatgtcgcc ccggagtcat    | 1560 |
| 57  | tgattgatca gatgcgcgtg atcgccagc aactgcagct gccgaaggga gtgtacgagc     | 1620 |
| 58  | ctctcaaata ccccaatcca tgtaagtcac ttctgtcttg cattgctcgt atacgatgaa    | 1680 |
| 59  | cgagaagctg acagccccgtg atcagccctt caatggcatt accgcacccct acaagctctc  | 1740 |
| 60  | gcatttagacg aagatctccc cgaaaaacca gaagacaaaa ccattccgaa ataccgcca    | 1800 |
| 61  | atcgacaagg taaatccacc acacccaaaca cgagaaataa ccctccaggc gtccaaactta  | 1860 |
| 62  | ctgacaattg caccacagcg cgccgggtgac tacgtattat cctggggccga cgaactcgaa  | 1920 |
| 63  | aagcaatacg ccaaaacctc agcagcggcc cctcgcccaa ccagcaccct cgtgaaacga    | 1980 |
| 64  | ggatcaaaag accgagcaag cgaaaccgag gactccaagc catcgaaaaa gatcaagggtt   | 2040 |
| 65  | gaggaagact ctggaagcct agaggaggaa gtccgcaggc atcacaagaa gggAACGCTA    | 2100 |
| 66  | tccaaaggtaa gccaccacag gctttctaca cgtcctcgat atggcaaata tgacatcgta   | 2160 |
| 67  | ttaaccggcg gtttcttagc ttacggtcgc tatcctcaag gacttcttga cttccaatgg    | 2220 |
| 68  | acgctcaaataat gccggtaaga aggccgatct tattgagcgg gtagaggagt tcttggagca | 2280 |
| 69  | gtga   | 2284 |
| 72  | <210> SEQ ID NO: 2   |      |
| 73  | <211> LENGTH: 1947   |      |
| 74  | <212> TYPE: DNA  |      |
| 75  | <213> ORGANISM: Aspergillus niger                                    |      |
| 77  | <400> SEQUENCE: 2  |      |
| 78  | atggcggacg gcaacccaca tcgggaagat gaggcggccg aggaagaaga ggagattgat    | 60   |
| 79  | gagactagct acaaaccagt caaagatgcg gtcctttcg caatcgatgt cagcgattcc     | 120  |
| 80  | atgttgacgc ctcgcccctc agcagatcct aagaaacaca cccaaacatc acccaccacg    | 180  |
| 81  | gcagcgctca aatgcgccta tcacttcatg caacaacgaa tcatatcaaa tccacaagac    | 240  |
| 82  | atgatgggtg tttgctgtt cgggacccag gcgtccaagt tcttgaaga agatgaagac      | 300  |
| 83  | agtcggggag acctgtccta ccccaactgc tacctttca ctgatctgga tggtcctcg      | 360  |
| 84  | gctcatgagg tcaaaggact tcgagcactg gtagatgtg aaggagactc aaggaggtt      | 420  |
| 85  | ctatctccag cgaaagagca ggtctctatg gcaaacgtcc tattttgcgc caaccagata    | 480  |
| 86  | ttcacatcca gagcgccaaa tttcctctcc cggcggttgt tcatacataac cgacaatgac   | 540  |
| 87  | aaccccccattgt gtgatgataa aaccctgcgg tcagcggcga ctgtacgtgc taaggatctt | 600  |
| 88  | tacgatcttg gtgtcacaat tgagctgtt ccgatctcac gccctgagca tgagttcaag     | 660  |
| 89  | aacagcaagt tctatgactc attgcccagc gatccagagg cgcctgcata tctacaatct    | 720  |
| 90  | gattcaaaag cggcgactgc gaccggggac gggatttcac tcctcaacac gcttctgtcc    | 780  |
| 91  | agtattaatt cgagaacgggt tccgcgtcgc actcatttt cgaacatgcc tttagaactt    | 840  |
| 92  | ggcccgact tcagaatttc ggtatcgggc tatatactct tacgaaggca agcgccccgt     | 900  |
| 93  | agaaactcct tcatctggct gaacggcgag aacgcgtgg tcgcgaaagg agtgacttcc     | 960  |
| 94  | caactccgcag atgatactgg ccggactgtc gagaatggg agatcagaaa ggcataataag   | 1020 |
| 95  | ttcggtggcg accaagtaac ctttcgcct gatgagcaga aggcgcttag ggatttcgg      | 1080 |
| 96  | gagccagtaa tccgggttat tgggttcaag cctatcactg cgcttccatt ctgggcaaac    | 1140 |
| 97  | gtcaagcacc catattttat ctatccatcc gaggaagact atgtaggctc ctcgcgagta    | 1200 |
| 98  | tttccgcatt tgcatcagac tctttgcgt tccaaagaaga tggcactcgt ctggttcatt    | 1260 |
| 99  | gcacgcaagg gtgctggccc cgttctcgcc gctatgatcg caggcgaaga aaaagttgt     | 1320 |
| 100 | gagaatggcg tacaaaaata ccctcctggc atgtggattc ttcccctccc cttcgacagac   | 1380 |
| 101 | gatatccggc agaaccccgaa aacaacgttg aatgtcgccc cggagtcatc gattgatcag   | 1440 |
| 102 | atgcgcgtga tcgtccagca actgcagctg ccgaaggagg tgtacgagcc tctcaaatac    | 1500 |
| 103 | cccaatccat ccctcaatg gcattaccgc atcctacaag ctctcgccatt agacgaagat    | 1560 |
| 104 | ctccccgaaa aaccagaaga caaaaccatt ccgaaatacc gccaaatcga caagcgcc      | 1620 |
| 105 | ggtgactacg tattatcctg ggccgacgaa ctcgaaaagc aatacgccaa aacctcagca    | 1680 |
| 106 | gcggccccctc gccaaccag caccctcgatg aaacgaggat caaaagaccg agcaagcgaa   | 1740 |

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/594,014

DATE: 10/03/2006

TIME: 09:09:35

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\10032006\J594014.raw

107 accgaggact ccaagccatc gaaaaagatc aagggttgggg aagactctgg aagccttagag 1800  
 108 gaggaagtcc gcaggcatca caagaaggaa acgctatcca agcttacggc cgctatcctc 1860  
 109 aaggacttct tgacttccaa tggacgctca aatgccggta agaaggcgga tcttatttag 1920  
 110 cggtagagg agttcttggg gcagtga 1947  
 113 <210> SEQ ID NO: 3  
 114 <211> LENGTH: 648  
 115 <212> TYPE: PRT  
 116 <213> ORGANISM: Aspergillus niger  
 118 <400> SEQUENCE: 3  
 119 Met Ala Asp Gly Asn Pro His Arg Glu Asp Glu Ala Ala Glu Glu Glu  
 120 1 5 10 15  
 122 Glu Glu Ile Asp Glu Thr Ser Tyr Lys Pro Val Lys Asp Ala Val Leu  
 123 20 25 30  
 125 Phe Ala Ile Asp Val Ser Asp Ser Met Leu Thr Pro Arg Pro Ser Ala  
 126 35 40 45  
 128 Asp Pro Lys Lys His Thr Gln Glu Ser Pro Thr Thr Ala Ala Leu Lys  
 129 50 55 60  
 131 Cys Ala Tyr His Phe Met Gln Gln Arg Ile Ile Ser Asn Pro Gln Asp  
 132 65 70 75 80  
 134 Met Met Gly Val Leu Leu Phe Gly Thr Gln Ala Ser Lys Phe Phe Glu  
 135 85 90 95  
 137 Glu Asp Glu Asp Ser Arg Gly Asp Leu Ser Tyr Pro Asn Cys Tyr Leu  
 138 100 105 110  
 140 Phe Thr Asp Leu Asp Val Pro Ser Ala His Glu Val Lys Gly Leu Arg  
 141 115 120 125  
 143 Ala Leu Val Asp Asp Glu Gly Asp Ser Arg Glu Val Leu Ser Pro Ala  
 144 130 135 140  
 146 Lys Glu Gln Val Ser Met Ala Asn Val Leu Phe Cys Ala Asn Gln Ile  
 147 145 150 155 160  
 149 Phe Thr Ser Arg Ala Pro Asn Phe Leu Ser Arg Arg Leu Phe Ile Ile  
 150 165 170 175  
 152 Thr Asp Asn Asp Asn Pro His Gly Asp Asp Lys Thr Leu Arg Ser Ala  
 153 180 185 190  
 155 Ala Thr Val Arg Ala Lys Asp Leu Tyr Asp Leu Gly Val Thr Ile Glu  
 156 195 200 205  
 158 Leu Phe Pro Ile Ser Arg Pro Glu His Glu Phe Lys Asn Ser Lys Phe  
 159 210 215 220  
 161 Tyr Asp Ser Leu Pro Ser Asp Pro Glu Ala Pro Ala Tyr Leu Gln Ser  
 162 225 230 235 240  
 164 Asp Ser Lys Ala Ala Thr Ala Thr Gly Asp Gly Ile Ser Leu Leu Asn  
 165 245 250 255  
 167 Thr Leu Leu Ser Ser Ile Asn Ser Arg Thr Val Pro Arg Arg Thr His  
 168 260 265 270  
 170 Phe Ser Asn Met Pro Leu Glu Leu Gly Pro Asp Phe Arg Ile Ser Val  
 171 275 280 285  
 173 Ser Gly Tyr Ile Leu Leu Arg Arg Gln Ala Pro Ala Arg Asn Ser Phe  
 174 290 295 300  
 176 Ile Trp Leu Asn Gly Glu Lys Pro Val Val Ala Lys Gly Val Thr Ser  
 177 305 310 315 320

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/594,014**

**DATE: 10/03/2006**  
**TIME: 09:09:35**

**Input Set : A:\PTO.RJ.txt**  
**Output Set: N:\CRF4\10032006\J594014.raw**

|     |  |     |     |     |
|-----|--|-----|-----|-----|
| 179 | His Ser Ala Asp Asp Thr Gly Arg Thr Val Glu Lys Trp Glu Ile Arg    |     |     |     |
| 180 | 325  | 330 | 335 |     |
| 182 | Lys Ala Tyr Lys Phe Gly Gly Asp Gln Val Thr Phe Ser Pro Asp Glu    |     |     |     |
| 183 | 340  | 345 | 350 |     |
| 185 | Gln Lys Ala Leu Arg Asp Phe Gly Glu Pro Val Ile Arg Val Ile Gly    |     |     |     |
| 186 | 355  | 360 | 365 |     |
| 188 | Phe Lys Pro Ile Thr Ala Leu Pro Phe Trp Ala Asn Val Lys His Pro    |     |     |     |
| 189 | 370  | 375 | 380 |     |
| 191 | Tyr Phe Ile Tyr Pro Ser Glu Glu Asp Tyr Val Gly Ser Ser Arg Val    |     |     |     |
| 192 | 385  | 390 | 395 | 400 |
| 194 | Phe Ser Ala Leu His Gln Thr Leu Leu Arg Ser Lys Lys Met Ala Leu    |     |     |     |
| 195 | 405  | 410 | 415 |     |
| 197 | Val Trp Phe Ile Ala Arg Lys Gly Ala Gly Pro Val Leu Ala Ala Met    |     |     |     |
| 198 | 420  | 425 | 430 |     |
| 200 | Ile Ala Gly Glu Glu Lys Leu Asp Glu Asn Gly Val Gln Lys Tyr Pro    |     |     |     |
| 201 | 435  | 440 | 445 |     |
| 203 | Pro Gly Met Trp Ile Leu Pro Leu Pro Phe Ala Asp Asp Ile Arg Gln    |     |     |     |
| 204 | 450  | 455 | 460 |     |
| 206 | Asn Pro Glu Thr Thr Leu Asn Val Ala Pro Glu Ser Leu Ile Asp Gln    |     |     |     |
| 207 | 465  | 470 | 475 | 480 |
| 209 | Met Arg Val Ile Val Gln Gln Leu Gln Leu Pro Lys Gly Val Tyr Glu    |     |     |     |
| 210 | 485  | 490 | 495 |     |
| 212 | Pro Leu Lys Tyr Pro Asn Pro Ser Leu Gln Trp His Tyr Arg Ile Leu    |     |     |     |
| 213 | 500  | 505 | 510 |     |
| 215 | Gln Ala Leu Ala Leu Asp Glu Asp Leu Pro Glu Lys Pro Glu Asp Lys    |     |     |     |
| 216 | 515  | 520 | 525 |     |
| 218 | Thr Ile Pro Lys Tyr Arg Gln Ile Asp Lys Arg Ala Gly Asp Tyr Val    |     |     |     |
| 219 | 530  | 535 | 540 |     |
| 221 | Leu Ser Trp Ala Asp Glu Leu Glu Lys Gln Tyr Ala Lys Thr Ser Ala    |     |     |     |
| 222 | 545  | 550 | 555 | 560 |
| 224 | Ala Ala Pro Arg Pro Thr Ser Thr Leu Val Lys Arg Gly Ser Lys Asp    |     |     |     |
| 225 | 565  | 570 | 575 |     |
| 227 | Arg Ala Ser Glu Thr Glu Asp Ser Lys Pro Ser Lys Lys Ile Lys Val    |     |     |     |
| 228 | 580  | 585 | 590 |     |
| 230 | Glu Glu Asp Ser Gly Ser Leu Glu Glu Glu Val Arg Arg His His Lys    |     |     |     |
| 231 | 595  | 600 | 605 |     |
| 233 | Lys Gly Thr Leu Ser Lys Leu Thr Val Ala Ile Leu Lys Asp Phe Leu    |     |     |     |
| 234 | 610  | 615 | 620 |     |
| 236 | Thr Ser Asn Gly Arg Ser Asn Ala Gly Lys Lys Ala Asp Leu Ile Glu    |     |     |     |
| 237 | 625  | 630 | 635 | 640 |
| 239 | Arg Val Glu Glu Phe Leu Glu Gln                                    |     |     |     |
| 240 | 645  |     |     |     |
| 243 | <210> SEQ ID NO: 4   |     |     |     |
| 244 | <211> LENGTH: 2651   |     |     |     |
| 245 | <212> TYPE: DNA  |     |     |     |
| 246 | <213> ORGANISM: Aspergillus niger                                  |     |     |     |
| 248 | <400> SEQUENCE: 4  |     |     |     |
| 249 | atggccgata aaggaggcaac tgtctacatc gtggactgcg gcaagtccat gggggagcgg | 60  |     |     |
| 250 | cgtcatggtc gcgaagtgac ggatctcgac tgggcgatgc aatatgttg ggatcgtatt   | 120 |     |     |

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/594,014

DATE: 10/03/2006

TIME: 09:09:35

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\10032006\J594014.raw

|     |   |      |
|-----|---|------|
| 251 | acagggacgg tgagatcctt attcttgaga atcatatcat acatgaaagc ttatgtttg    | 180  |
| 252 | gatagggtgc cactggacga aaaatggctt tgatcggtgt tcttgggctc aggacagatg   | 240  |
| 253 | gtgagtgact agcctcccggtt gtagtggtagt ttgctggtcg gggctaattgc          | 300  |
| 254 | aggaacgtcc agaaaccgct aatgagttgg aggatgatcc tgattattcg catatctcg    | 360  |
| 255 | ttttgtctgg gattaaacag tatgattcat ttttgtctgc tgatcctctg gttattcg     | 420  |
| 256 | gatgaactat aggttctta tgccggatat ccggggtttgc agcgaccgaa taaagcctag   | 480  |
| 257 | caagactaat aaggagatg gtgagttact cttcttgtat ggaattggag tgattgggc     | 540  |
| 258 | tgagccgatg aatatacgta tctctgcact tgtgctcgatc attcagatga ttatcactca  | 600  |
| 259 | gtgcaagaaa ctgaagtaca agcgaggat tgcctgggtt actaatggc agggcccgat     | 660  |
| 260 | gaacccggat aatcttagtg aaataacgaa gaagattaag gaggataaca ttgaacttat   | 720  |
| 261 | tattctgtta gtgtcaattt atacactgag agaaccgggg tactaacatg ctgcagggg    | 780  |
| 262 | ccagactttt atgatcctga atatgggtt aagaggaag ataaagatcc gcgaaaggta     | 840  |
| 263 | tttaacttgc ttccatatgc tctagactaa taataacaat ggctacaggc cgaaaatgaa   | 900  |
| 264 | acactcctgc gtgtcttgc cgaagactgc gaaggagcct atggaaccctt agaacaagct   | 960  |
| 265 | gttgcggagc tgaaaactcc tcgtgtgaaa accacaagga taacagcaag cttcaaggc    | 1020 |
| 266 | catttgcac tagaaaccc cgcagaatat gatactgcag ttcggatccc tggagcgc       | 1080 |
| 267 | tactacagga catacggtgc aaaagctccg tcggctagtc agttcacagt acgtaacgaa   | 1140 |
| 268 | gaggagatgg gaatggccgc ggccgcagcc ggctcgagg aaggtagttc cttgtgggt     | 1200 |
| 269 | gttcgaaaca acaggtccta ccaaatttgc gatggacta ctgaagaagg ggtgaggagc    | 1260 |
| 270 | gtggatcgag agcaacttgc caagggttat gactacgggc ggacatttgc ccattttgc    | 1320 |
| 271 | gagacggatg agaatatcac cacccttagag acatttgcgg ctatcgagct tttgtgggt   | 1380 |
| 272 | atacagagcg atcgggtgag ttctaccctc caataactgt tattatgctg ctaagtgggt   | 1440 |
| 273 | tttgcattt gtatgtatcg tacatgcaca tgcacgcac aaacatcatc atcgccgc       | 1500 |
| 274 | gcgcgaatga caaggcagca ctcgtcttt cctcttcat acatgcgtt ttcgagctgg      | 1560 |
| 275 | aatcgatcg tgcgtccgtt atgggtctaa aggagaacaa accccctgtc atagtcgtgc    | 1620 |
| 276 | ttgcgccatc aatcgaaaccc gactacgact gtctcctcgatc agcgacgtt ccattcgac  | 1680 |
| 277 | aagacgtacg aacgtaccgc ttccctccac tcgacagagt cattacagtgc tctggtaaaag | 1740 |
| 278 | tggtgacaca gcatcgaaac ctacccaacg acgatctgtt gaatgcgtt gacaaatacg    | 1800 |
| 279 | tgaaaagcat ggagcttacc gatatggacg agaacgggtt agaagaattt gaagtgtatct  | 1860 |
| 280 | caacttcact gctgactttt tacaaggatgaa cccgacggaa tctctccaa tagacgactc  | 1920 |
| 281 | tttctctcca gtcctgcacc ggatcgactc cgcaatccgtt caccgtgccatc ttcatccaa | 1980 |
| 282 | cgaccctatc ccgcggcccg cctcagtctt aacgaaggatc tcccaccctc cggatgaccc  | 2040 |
| 283 | cgtcgagaag tccaaaggatc accttagacaa gctagtagca gtgtcgacg tcaagaaagg  | 2100 |
| 284 | tcagtccatc tcggccttgc gcctctttagg ccccatcat actcacatgc atgaatctatgc | 2160 |
| 285 | tcccaacaa aaccaaaaggc accaaacggc cccgcggaaac cgagaagcca ctatccggc   | 2220 |
| 286 | tcgacgtcgatc tgcccttctc caccaagaga agcgacgaa gatctcaccc aacaacgca   | 2280 |
| 287 | ttcccgagtt taagcagacg ctctcgagg cagagaacat cgagatcatc aaggatgc      | 2340 |
| 288 | tgaagcagat gagactatc attgaagacc aaatcaggca tagtcttgc gatgttaatt     | 2400 |
| 289 | atcatcggtt cactgagggg cttaggtgtt gtcggggagga actgatcgat tatgaggaac  | 2460 |
| 290 | ctgctctgtt taacgatttc ttgaaggacg tgaaggagaa gttgttggaa gaggagctcg   | 2520 |
| 291 | gtggggatcg acgggagctg tggggctgc taagaaggag taagttgggg ttgattgaac    | 2580 |
| 292 | agagggagtc ggaacactct gaggtgagag aagaggaagc gaaggcgatc atgtctatgg   | 2640 |
| 293 | ctgctaagtgc a   | 2651 |
| 296 | <210> SEQ ID NO: 5  |      |
| 297 | <211> LENGTH: 2178  |      |
| 298 | <212> TYPE: DNA   |      |
| 299 | <213> ORGANISM: Aspergillus niger                                   |      |
| 301 | <400> SEQUENCE: 5   |      |
| 302 | atggccgata aagaggcaac tgtctacatc gtggactgcg gcaagtccat gggggagcgg   | 60   |

**VERIFICATION SUMMARY** DATE: 10/03/2006  
PATENT APPLICATION: US/10/594,014 TIME: 09:09:36

Input Set : A:\PTO.RJ.txt  
Output Set: N:\CRF4\10032006\J594014.raw

L:12 M:270 C: Current Application Number differs, Wrong Format